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Title :

Unsatd. polyurethane contg. 20-80 per cent polyethylene glycol units - useful as dispersants for the prodn. of aq. dispersions of hydrophobic alkyd resins, esp. in aq. paint compsns

Derwent Classes :

A25 A82 G02

Patent Assignee :

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10

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EP-613914 A1 19940907 DW1994-34 C08G-018/28 Ger 7p *

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DSR: AT BE CH DE DK ES FR GB GR IT LI NL PT SE

DE4306946 A1 19940908 DW1994-35 C08G-018/67 5p

AP: 1993DE-4306946 19930305

AU9457544 A 19940908 DW1994-37 C08G-018/48

AP: 1994AU-0057544 19940303

CZ9400497 A3 19940914 DW1994-39 C08G-018/67

AP: 1994CZ-0000497 19940304

CA2115818 A 19940906 DW1994-42 C08G-018/67

AP: 1994CA-2115818 19940216

BR9400831 A 19941122 DW1995-03 C08G-018/32

AP: 1994BR-0000831 19940304

JP07002972 A 19950106 DW1995-11 C08G-018/67 6p

AP: 1994JP-0034694 19940304

ZA9401521 A 19950125 DW1995-11 C08G-000/00 16p

AP: 1994ZA-0001521 19940304

US5466772 A 19951114 DW1995-51 C08G-018/28 8p

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Abstract :

EP-613914 A

Unsatd. polyurethanes (UPU) (I) contg. 20-80 wt.% polyethylene glycol (PEG) units are prep'd. by reaction of (a) polyisocyanate(s), (b) unsatd. fatty alcohol or a polyalkylene glycol ether thereof or the reaction prod. of an unsatd. fatty acid and a mono-epoxide, (c) a cpd. contg. two NCO-reactive gps. and ionic gp(s). or a structural element which can be converted into an ionic gp., (d) a polyalkylene glycol with mol.wt. 750-10000 and opt. (e) a cpd. with 3-6 OH or amino gps., with ratio (NCO gps. in a):(OH and amino gps. in b-3) = (0.7:1)-(1.2:1). Also claimed are aq. dispersions of (II) contg. UPU (I).

USE - Used as dispersants for the prodn. of aq. dispersions of hydrophobic alkyd resins (II) (claimed).

ADVANTAGE - Water-based alkyd resin paints contg. (I) as dispersant have better pigmentability, drying properties, water resistance and storage stability than prior-art systems, enabling the prodn. of highly pigmented gloss coatings. (Dwg.0/0)

US Equiv. Abstract :

US5466772 A

Unsatd. polyurethane contg. 20-80 wt.% of polyethylene glycol units, is prep'd. by reacting (a) at least one organic polyisocyanate, (b) an unsatd. fatty alcohol or its polyalkylene glycol ether, an unsatd. fatty amine or a reaction prod. of an unsatd. fatty acid and a mono-epoxide, (c) a cpd. contg. not only two gps. which react with isocyanate gps. but also at least one gp. which is ionic or a structural element which can be converted into an ionic gp., (d) a poly-alkylene glycol having a molecular mass of 750-10,000, and opt. (e) a cpd. contg. 3-6 hydroxyl or amino gps. The ratio of the isocyanate gps. in (a) to the hydroxyl and amino gps. in the remaining component is 0.7:1 to 1.2:1.

USE - Used as dispersants for alkyd resins. ((Dwg.0/0))

Manual Codes :

CPI: A05-E08 A05-G03 A07-B04 A08-S05 A10-E24 A12-B01H G02-A02E G02-A03

Update Basic :

1994-34

Update Equivalents :

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